

1950-52

(3) File No. S. 951

Public Works Dept.

B CLASS

J. BRANCH

Subject:— Bairanpad Irrigation
Scheme - Dharwar -

(8)

B [K] 1952

File No.

S. 951 (3) - J. Br

DOCKET SHEET

Subject:-- Bainsapad Irrigation
Scheme - Bhawan.

File No. S-95(3)/1767

P. W. DEPT.

J. BRANCH.

References:--

Date	To whom sent.	Notes and instructions.

main file is
separately
in
region

Letter True Copy

Immediate

No. S-95(3)/104066 - I B I

P. W. D.

B. C. (Bombay No 1)

26th Decr 1950

To

The Ex-Engr. Dharwar Irrigation Dn

Subject - Balren Pad Irrigation Scheme at
Hansbhawe, Tal. Hirekerur, Dt. Dharwar

When ~~The~~ H. M. P. W. D. visited Hansbhawe on 9th Dec. 1950, it was brought to his notice that a large area of 300 sq. miles wide, lying between two rivers Vardha & Tungabhadra, being paddy growing or depending on rains, has been without irrigation facilities being provided for in the conditions of scanty and unfailing rains. The people therefore requested Govt to take up the Balren pad irrigation scheme as early as possible. You are therefore requested to submit a detailed report of this scheme through the S. E. K. I. C. so as to reach this Deptt. on or before 2nd January 1951 without fail.

D. A. - Nil

By order etc.
Sd/- R. N. Pandya
Assist. Secy. to Govt.

Copy forwarded to the S. E. K. I. C. for information.

Copy of a summarised English translation of an address presented to the Honourable the Prime Minister by the Hirekerur Taluka Development Association District Dharwar, at Hosahalli, on the 29th September 1946.

" We are pleased and honoured by your visit to-day to the association of the poor ryots of Hirekerur. Our taluka is on the border of Malnad. The large number of tanks in our taluka are all filled with silt, with the result that we are compelled to go without a drop of water. But despite this fact, we are not relieved of the tax in respect of this. We, therefore, appeal to your honour to deepen the tanks and provide water to the poor ryots. There are extensive irrigation lands in our taluka, which at present suffer from shortage of water. We, therefore request you to construct a dam to the Tungabhadra river near Bairanapad and irrigate the lands in our taluka as well as the neighbouring taluka of Ranebennur. There are extensive mountain ranges in the neighbourhood of our taluka and these are infested with wild animals which always terrorise the ryot and his cattle. The ryot is not provided with any weapon to destroy the wild animals. Government had established three gun clubs in this taluka, but they have become clubs in an only as Government seized the arms in the August 1942 movement. Though orders have been issued by our popular Government to restore the arms, the same have not been restored as yet. We trust that your Honour will fulfill our demand in this regard. In our taluka there are large tracts of lands overgrown with weeds and the poor ryots find it impossible to bring the lands under cultivation. We, therefore, request to supply tractors to our taluka. The Forest Department is in the habit of setting fire to the extensive grass meadows in our taluka, with the result that cattle are threatened with starvation and the work of cultivation is impeded. We make an appeal to you to make this grass available to all the ryots free of charge. We have a strong feeling that ~~the state~~ you would bring about in your regime the unification of Karnatak which alone can guarantee the advancement and progress of our province. We once again welcome you and your associates and pray God to bless you all with long life and happiness. "

No.S.1/49007-I.

Public Works Department,
Bombay Castle, 18th Dec. 1946.

Copy forwarded, to the Superintending Engineer, Southern Circle, in continuation of Government endorsement No.3401/36-I, dated the 3rd December 1946 for favour of remarks, with reference to the portion marked above.

By order of the Governor of Bombay,
Sd/- Sundram V.Iyer,
Asstt. Secretary to the Government
of Bombay, Public Works Department.

No.D.I.2.

Public Works Department,
Belgaum, 30th December 1946.

Copies forwarded, with compliments to the Executive Engineer, Dharwar Division, in continuation of this office Endorsement No.D.I.2, dated the 12th December 1946, for favour of an early report.

Sd/-
Superintending Engineer, S.C.

" True Copy "

LETTER.

From

R.P. Little, I.S.E.,
Superintending Engineer,
Southern Circle,
Belgaum.

To

The Secretary to Government,
Public Works Department,
BOMBAY.

No. M.I.-1.

Public Works Department,
Belgaum, 7th June 1947.

Subject:- Construction of a dam across
the Tungabhadra River near
Bhairsapad Hosur.

Reference: Correspondence ending with Government
letter, P.W. D.No. S-1/17556-I.B.(II)
dated the 1st May 1947.

It appears possible to irrigate some lands in the
villages of Ranabennur taluka adjoining the Mysore State
territory if the left bank canal of the Tunga Anicut is
extended beyond the State boundary.

2. It is not, however, possible at this stage to
estimate the length of the canal extension and ascertain
the area that can be brought under irrigation unless
the bed level of the Mysore State canal at the boundary
of the Ranabennur taluka and water supplies available
are known.

3. To enable us to undertake detailed investigation
and survey for canal system in the adjoining area of
Ranabennur taluka, Government of Mysore may please be
requested to furnish necessary data and copies of plans
of the left bank canal of Tunga Anicut specially pertain-
ing to its tail end.

4. After detailed surveys, it will be possible to
ascertain the area command and also the irrigable area
and then estimate requirements of water supplies at
the tail end of the left bank canal of the Tunga Anicut of
the Mysore State.

5. Further, it is also suggested that Government of
Bombay may please be moved to give advance indication
to the Mysore Durbar of their desire to participate in
this scheme. Should the proposal of extending irrigation
benefits in the area of Ranabennur taluka be feasible.

6. In case the required water supplies are available
at the tail end of the Mysore State Canal and the
Mysore state has no objection to the extension of the
canal to give irrigation benefits to the Dharwar area,
the work of detailed surveys and preparations of plans
and estimate for the canal system now suggested, may be
entrusted to the Executive Engineer, Irrigation Project
Division (South) Belgaum under the Project Circle.

Accompanying:-

1 Blue Print and
Index map.

Yd/-
Superintending Engineer, S.C.

" True Copy

VRP. 30/12.

Advance copy

No.M.I.1.

Office of the Executive Engineer,
Dharwar Irrigation Division,
Dharwar, 31st December 1950.

To

The Assistant Secretary to
Government P.W.D.,
B O M B A Y.

Subject:- Bairanpad Irrigation Scheme
at Havasbhavi Taluka Hirekerur,
District Dharwar.

Reference: Government letter (P.W.D.) No. S-95
(3)/104066-I.B.(I) dated the 26th
December 1950. *1*

Formerly, as a result of suggestion made
by the Hirekerur Taluka Development Association,
District Dharwar in its address presented to the
Honourable Prime Minister at Hosapalli on 29-9-46
Government in the P.W.D. had called for a report
from the Superintending Engineer, S.C. Belgaum on
the feasibility of the very Scheme in Government
Endorsement (P.W.D. No. S-1/49007-I dated the 18th
December 1946 (Copy enclosed).

2. In response to the above Government refer-
ence, the Superintending Engineer, Southern Circle,
Belgaum has submitted a report under his office
letter No.M.I.-1 dated the 7th June 1947, to Gover-
nment in the Public Works Department. A copy of
that officer's report is enclosed herewith for
reference.

3. From the papers on the subject available
in this office, it is not known whether the matter
has been pursued further.

Accompt:

1 Copy of Govt.
Endorsement refe-
rred in para 1 above

1 Copy of S.E.S.C.'s
letter referred to
in para 2 above.

Under Secretary
30/12
Executive Engineer,
Dharwar Irrigation Division.

Through the Superintending Engineer, Karnatak
Irrigation Circle, Dharwar with compliments.

2. It is presumed that previous correspondence
on the subject pertaining to the office of the
Superintending Engineer, Southern Circle, Belgaum
has been transferred to his office. If so further
information if any available on the Scheme may
please be communicated to Government while transmi-
tting this report.

Advance Copy, with a copy of the Superintending
Engineer, Southern Circle's letter No.M.I.-1 dated
the 7th June 1949, forwarded with compliments to the
Assistant Secretary to Government P.W.D., Bombay for
information.

(8) 2P-2
8/10/12

VRP. 30/12.

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S-95(3) 1018

SB(IV)

B.W.D.

Submitted with reference
to B.L. No. S-59(3) 1104086 - SB(I),
1 - dated the 26-12-50.

2. The original report of the
Ex. Inpr., wherever I. Dr., forward
ed through the SE; K D B. may
be awaited till the 10-1-51

In -
8/1/51

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8/1/51

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Dharwar Irrigation Division,
Dharwar, 31st December 1950.

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Reference: Government letter (P.W.D.) No.S-95
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in para 2 above.

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Dharwar Irrigation Division.

Through the Superintending Engineer, Karnatak
Irrigation Circle, Dharwar with compliments.

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Superintending Engineer, Southern Circle, Belgaum
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tting this report.

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Assistant Secretary to Government P.W.D., Bombay for
information.

VRP: 30/12.

15

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No.S.1/49007-I.

Public Works Department,
Bombay Castle, 18th Dec.1946.

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By order of the Governor of Bombay,
Sd/- Sundram V.Iyer,
Asstt. Secretary to the Government
of Bombay, Public Works Department.

No.D.I.2.

Public Works Department,
Belgaum, 30th December 1946.

Copies forwarded, with compliments to the Executive Engineer, Dharwar Division, in continuation of this office Endorsement No.D.I.2, dated the 12th December 1946, for favour of an early report.

Sd/-

Superintending Engineer, S.C.

" True Copy "

VRP.30/12.

15

L E T T E R.

From

E.P.Little, I.S.E.,
Superintending Engineer,
Southern Circle,
B e l g a u m.

To

The Secretary to Government,
Public Works Department,
B O M B A Y.

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Public Works Department,
Belgaum, 7th June 1947.

Subject:- Construction of a dam across
the Tungabhadra River near
Bhairampad Hosur.

Reference: Correspondence ending with Government
letter, P. T. D.No.S-1/17556-I.B.(II)
dated the 1st May 1947.

It appears possible to irrigate some lands in the
villages of Ranebennur taluka adjoining the Mysore State
territory if the left bank canal of the Tunga Anicut is
extended beyond the State boundary.

2. It is not, however, possible at this stage to
estimate the length of the canal extension and ascertain
the area that can be brought under irrigation unless
the bed level of the Mysore State canal at the boundary
of the Ranebennur taluka and water supplies available
are known.

3. To enable us to undertake detailed investigation
and survey for canal system in the adjoining area of
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requested to furnish necessary data and copies of plans
of the left bank canal of Tunga Anicut specially pertain-
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4. After detailed surveys, it will be possible to
ascertain the area command and also the irrigable area
and then estimate requirements of water supplies at
the tail end of the left bank canal of the Tunga Anicut of
the Mysore State.

5. Further, it is also suggested that Government of
Bombay may please be moved to give advance indication
to the Mysore Durbar of their desire to participate in
this scheme. Should the proposal of extending irrigation
benefits in the area of Ranebennur taluka be feasible.

6. In case the required water supplies are available
at the tail end of the Mysore State Canal and the
Mysore state has no objection to the extension of the
canal to give irrigation benefits to the Dharwar area,
the work of detailed surveys and preparations of plans
and estimate for the canal system now suggested, may be
entrusted to the Executive Engineer, Irrigation Projects
Division (South) Belgaum under the Project Circle.

Accompts:-

1 Blue Print and
Index map.

Sd/-
Superintending Engineer, S.C.

" True Copy

YRP. 30/12: -

17
From:

Shri. A.G.Naik, B.E., AM.I.E., B.S.E.(I),
Executive Engineer, Dharwar Division,
Dharwar.

No. M.I.1

Office of the Superintending Engineer,

~~Kannurak Irrigation~~

To The Superintending Engineer, Dharwar Division, Dharwar, 30-8-1946.
Shimoga Circle.

Subject: Reservoir sites on the Tungabhadra River.

Sir,

I have to request you please to advise me if any storage reservoir sites across the Tungabhadra River at Bairampad - Hosur or Hallur-Harganhalli have been or proposed to be investigated by the Government of Mysore. As the Government of Bombay will be interested in such joint schemes which would benefit both the Dharwar District and the Mysore territories, I shall be grateful if you supply me the details of investigations carried ~~xxxxxx~~ out if any. If no investigations have been so far carried out, please inform me if you consider such investigations desirable.

Yours obedient servant,

Sd/ A.G.Naik

Executive Engineer, Dharwar Division.

Copy
BR/3-1.

18
No. 3887

Office of the Superintending Engineer,
Shimoga Circle, Shimoga,
Dated, 11th September 1946.

To

The Executive Engineer,
Dharwar Division, Dharwar.

Sir,

Subject: Reservoir ^{oir}~~ation~~ sites on the Tungabhadra river.

With reference to your letter No.M.I.1 dated 30th August 1946, I write to state that the Reservoir sites on the Tungabhadra at Hosur or Hallur Haraganahalli are not proposed for any investigation by the Mysore Government. Any reservoir at any of these places would not benefit Mysore State but brings under submersion large extents of fertile lands in Shimoga District, which will be commanded by the proposed Bhadra Reservoir at Lakkavally and the Tunga Anicut at Sacrebyle. Under the circumstances, it is not desirable to undertake any investigation as suggested by you.

I have etc....

Sd/ Batur Bhima Rao

Superintending Engineer, Shimoga Circle.

Copy
BR/3-1.

21

From:

Shri. A.G.Naik, B.E., A.M.I.E., B.S.E(I),
Executive Engineer, Dharwar Divn.,
Dharwar.

☒

No. M.I.1 .

Dated, 9th Octr. 1946.

To

The Superintending Engineer,
Shimoga Circle, Shimoga.

Subject: Reservoir sites on the Tungabhadra River.

Reference: Your No. 3887 dated 11th Sept. 1946.

Sir,

I would request you please to send index plans of both the Bhadra Reservoir at Lakkavally and the Tunga Anicut at Sacrebyle showing the proposed sites, irrigation channels etc. to enable me to see whether any area in Dharwar Dist. could be irrigated from any of the above schemes. Your views regarding the feasibility of such irrigation in the Dharwar Dist. are requested so that if this is possible the Govt. of Bombay may be moved to approach the Government of Mysore.

Your obedient servant,

Sd/ A.G.Naik

Executive Engineer, Dharwar Divn.

Copy
BR/3-1.

23

No. 5749

Office of the Superintending Engineer,
Shimoga Circle,
Dated, Shimoga, 20/22nd Octr. 1946.

To

Raosaheb A.G.Naik, B.E., A.M.I.E., B.S.E(I),
Executive Engineer, Dharwar Division.

Subject: Reservoir sites on the Tunga Bhadra river.

With reference to your letter No.M.I.1 dated 9th Octr. 1946 on the above subject, I have the honour to state that the Bhadra Reservoir at Lakkavalley and the Tunga Anicut near Sacrebyle are projects relating to the Tunga-bhadra agreement between the Governments of Mysore and Madras regarding the sharing of the Tungabhadra waters. The quantities of water to be utilised on each of the above rivers and the areas proposed to be irrigated have been fixed in accordance with the quantity of water allotted to Mysore as per this Agreement. Irrigation of any area in Dharwar District by the above scheme is not therefore feasible.

I have etc.....

Sd/ ---

Superintending Engineer, Shimoga Circle.

Copy
BR/3/1/50

25

Below Executive Engineer, Dharwar Irrigation Division's
No. M.I.1 dated 31-12-1950 regarding Bairan Pad Irrigation
Scheme at Havasbhavi, Taluka Hirekerur, Dist: Dharwar.

---o---

No. M.I.4/Kod

Office of the Superintending Engineer,
Karnatak Irrigation Circle, /
Camp via Dharwar, 3rd Jan.1950.

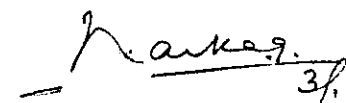
Forwarded with compliments to the Secretary to Government,
Public Works Department, Bombay.

2. No P.C.in this connection is received from Superintending Engineer, Southern Circle, Belgaum. The Mysore Government was not agreeable to the investigation of the scheme as any scheme near Bairan Pad would submerge the fertile lands under the command of the Tunga and Bhadra projects in Mysore State area which are already under execution. Copies of correspondence between Executive Engineer, Dharwar Division and Superintending Engineer, Shimoga Circle (Mysore) are also enclosed herewith for information.

3. However, it is presumed that the Government of Bombay has reserved its right in sharing the waters of the Tungabhadra. If so, and if Government agrees, the matter will be taken up with the Chief Engineer to the Government of Mysore.

Accompts:

- 1) As above.
- 2) Copies of
4 letters.


Superintending Engineer, K.I.C.

Copy....

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21: Trans.

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I. B. (II).

P. W. DEPT.

The Ex. Engr., Dharwar Irrigation Dn. was requested to submit a detailed report on the Bairanpad Irrigation Scheme on account of representations received by the H.M., P.W.D. that there are no irrigation facilities in the area between the Vardha and Tungabhadra rivers. The Ex. Engr. has only invited attention to the previous correspondence in this connection, when a similar report was called for from the S.E., S.C. and the ~~Collector~~ ^{Collector} report thereon. - ¹¹ ¹³ ¹⁵

2. When the H.C.M. had visited Hirekerur in 1946, he was presented with an address by the Taluka Development Association ~~at~~ that place. The gist of the address was a request to Govt. to construct a dam across the Tungabhadra river near Bairanpad. The S.E., S.C.'s report was received in June 1947. That officer was unable to express an opinion unless he was in possession of data regarding the bed level of the Mysore State Canal at the boundary of the Ranabennur taluka and the available water supplies. The Govt. of Mysore was accordingly addressed in G.L. No.S.1/24835-I.B.(II), dt. the 26.7.47. To this, the Mysore P.W.D. stated that the length of the Left Bank Channel from the head works of the Tunga Anicut at Sacrebyle to the State boundary beyond ~~Annali~~ ^{Annali} is 70 miles. The bed level of the channel was reported to be R.L. 1910.00 at start and average bed level of the river at head works was R.L. 1875.00. The Channel trace beyond the 62nd mile practically hugs the river ~~level~~ ^{bank} leaving no margin for irrigation between the channels and the river. For this reason, it was proposed by the Mysore Govt. to tail off the channel at its 62nd mile near Marihalla without continuing it beyond to the State borders. It was considered that there was no scope for irrigation in the Dharwar Dt. through the above source. This Govt. accordingly dropped the proposal of constructing a dam across the Tungabhadra

river ...

H
fil S-1 (Part 3)
p 221

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28
river near Bailanpad. From the correspondence
within sent by the S.E., S.C., it is also seen that
the Mysore Govt. is averse to ~~to~~ the investigation
of the scheme as ~~under~~ any scheme near Bailanpad
would submerge the fertile lands under the
command of the Tunga and Bhadra Projects in Mysore
State, which are under execution.

Thus El B(I) + B(I)

19.1.51

* 4 of 100000
10/1/51.
CKW.

When the question of a dam at Bailanpad
across the Tungabhadra was ~~up~~ raised & referred to
the I.E.S.C., he sidetracked this point altogether
and ~~referred~~ referred to the possibility of the Dhenwar
area being benefitted by the Tungas Ancient Project
of the Mysore State. This latter being reported infeasible
by the Mysore Govt, the matter ended there.
Subsequently, proposals for a dam across the T. Bhadra
to be jointly investigated by Bombay & Mysore
were referred by the E.E. Dhenwar to the SE Mysore
(Shenaga) and that officer was not agreeable, as
the proposed scheme would submerge fertile
lands under command of the Tungas & Bhadra
Projects under execution by the Mysore State.
The feasibility of the Bailanpad Project has
thus, been left in the lurch.

Bailanpad is just six miles North
of the Mysore Border and the Tungabhadra
River is crossed by a East West range of hills.
A storage reservoir would definitely submerge
lands in the Mysore State and would not
be a feasible proposition to be considered.
There is, however, the least objection to the
construction of a pick-up-weir at this site
for irrigating lands in Dhenwar by a left
Bank Canal, similar to the Tungas Ancient
(Ancient is a weir) scheme of the Mysore State
higher up. With the Mysore schemes in
operation, water supply in the Tungabhadra, even
during fair seasons would be available.
A pick-up-weir scheme may be investigated

See file
42 N-1

12.1.51

S.E. K I C. may be requested to report
if a pick-up was scheme as suggested
in the Dy. Insp's note is feasible.

K/12/1/51

A report as proposed by D.S. is
necessary before "investigation" of the scheme
is undertaken or thought of for
inclusion in the programme of investigations.
12/1/51

leg.

X 13/1/51 H.M.P.W.S.
12/1/51

Jan 14/51

4/1/51

K/57/1/51 D.S.
15/1

shil.
16/1

AB(II)

Submitted with the
necessary 3rd draft for approval
thru DE (I)

16.1.51. P.
17/1/51

Ref.
17-1-51

AH

Letter - 1

No. S. - 95 (3) / 1767 - I B (C)

P. W. D.
Be. (B. & W.)
18th Jan 1957

20

The S.E., K. I. C.,

Subject: Bairanpadi Irrigation
Scheme, Dharmwar.

Reference: Correspondence relating
with your ~~letter~~ ^{letter} No. MI 4/KOD,
dated the 3-1-57 - p. 25.
2. Govt. does not consider
it feasible to construct a dam
across the Tungabhadra river
near Bairanpadi. It might
however be possible to construct
a pick-up weir at this site for
irrigating lands in Dh. Dist.
by a left bank canal similar
to the "Tunga Ancient" scheme
of the Mysore State. ^{higher up} ~~are~~ ^{investigated} ~~are~~ ^{are}
requested ~~to~~ ^{to} report the
feasibility or otherwise of
the proposed pick up weir scheme.

* With the Mysore schemes
in operation, water
supply in the Tungabhadra,
even during the fair seasons, would
be available.

L.

2.
18/1/57

By order, etc.

A. I. to Govt.
P. W. D.

Letter.

No.S.95(3)/1767-I.B.(II).

Public Works Department,
Bombay Castle (Bombay No. 1),
18th January 1951.

To

The Superintending Engineer, Karnatak Irrigation Circle.

Subject:-Bairanpad Irrigation Scheme,
Dharwar.

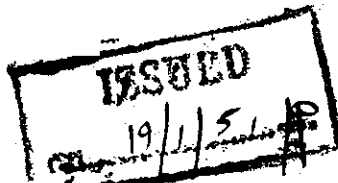
Reference: Correspondence ending with your endorsement
No.M.I.4/Kod, dated the 3rd January 1951.

2. Government does not consider it feasible to construct a dam across the Tungabhadra river near Bairanpad. It might however be possible to construct a pick-up weir at this site for irrigating lands in Dharwar District by a left bank canal similar to the "Tunga Anicut" scheme of the Mysore State higher up. With the Mysore Schemes in operation, water supply in the Tungabhadra, even during fair seasons, would be available. You are requested to investigate and report the feasibility or otherwise of the proposed pick up weir scheme.

By order of the Governor of Bombay,

R. N. P.
18/1/51

Assistant Secretary to the Government of Bombay,
Public Works Department.



3
18/1/51

D.A:-Nil.

S.95(3)

767/1 (20.2.51)

20/1. Also to
30/6

J.B.

P.W.D.

The S.E., Kan. I. C., expedited
under No. S.95(3)/1767-8, dated
the 2nd July 1951. marked very urgent

K.J.
30/6/51.

YH
2-7-51

Issue exp. ~~transit~~
2/7 ~~transit~~

Contract (6-9-51).
6/7

Issued
2/7/51

Letter
No. M.I.4

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 16th July 1951.

To

The Chief Engineer,
Public Works Department,
Bombay-1.

Subject:- Bairampad Irrigation Scheme
at Havasbhavi, Taluka Hirekerur
District: Dharwar.

Reference: Government letter No.S.95/3/1767-I.B.(II)
dated the 18th January 1951 and reminder dated 2nd July 1951.

~~Some~~
~~Since~~ information is yet awaited from the Executive
Engineer, Irrigation Project Division (South), Dharwar, who
has been expedited. The report will be submitted to Govern-
ment soon after its receipt in this office.

6728

Harsh

BR/14-7.

Superintending Engineer. K.T.C.
G. 14/1

S.95(3)
62215

J.B.

P.W.D.

Submitted with refce. to Govt.
expediter No. ^{10 24} S.95(3)/1767-J,
dated the 27. 1951

Await.

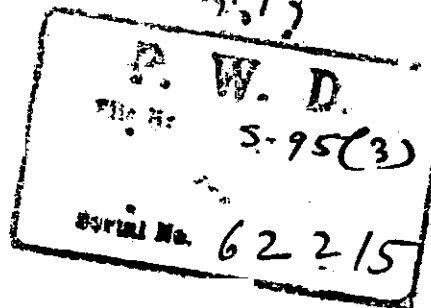
K.D.
23/1/51

YH
27-7-51

supdt

(27-7-51)

J 19/7



21-7-51
J
17 18-7-51

Statement No. 1.Principal Features of the Bairanpad Hosur Irrigation Scheme
in the Dharwar District.I Weir:

a) Catchment area	3200 square miles
b) Rain fall	30" to 100"
c) Maximum flood discharge	3,96,000 cusecs (Inglis' formula)
d) River bed level at the site	R.L. 1745 (approximately)
e) R.L. of the crest of weir	R.L. 1770
f) R.L. of lowest level of the Honnali town in Mysore state	R.L. 1790
g) Length of weir	3500' (approx)
h) Flood depth	4 12'
i) Area submerged at H.F.L.	5000 acres
j) No. of villages submerged	13 Nos.

II Canal.

a) Canal Bed level at start	R.L. 1765
b) Capacity at Head	400 cusecs .
c) Bed fall	1'/mile
d) Length of Canal	50 Miles
e) Area commanded	22,000 acres
f) Area proposed to be irrigated of which	15,000 acres
Rice	5,000) "
Kharriff seasonals	5,000) "
Rabi -do-	5,000) "

III Financial Aspect:

a) Cost of scheme	250 lakhs
b) Net Revenue return	Rs. 70,000
c) Percentage return	0.28%
d) Cost/acre irrigated	Rs. 1670.

Hanag. 26/10/51
Superintending Engineer, K.I.C.

Statement No. IIBairanpad Irrigation Scheme.Rough Cost of scheme including financial aspect.I. Cost of scheme:

a) Masonry pick up weir about 3500' in length and about 25' high above river bed including down stream protection, etc., etc.	50 lakhs
b) Canal 50 miles long with a capacity of 400 cusecs at head including cost of all cross drainage works etc.	90 lakhs
c) Distribution system at Rs. 35/acre of gross command	8 lakhs
d) Diversion of Honnali Tuminkatti - Ranebennur Road; length 4 miles	5 lakhs
e) Special Tools and Plant etc.	7 lakhs
Total Rs.....	160 lakhs
Add 27% for over head charges "	43 lakhs
	203 lakhs
f) Land and House compensation	
(a) 5000 acres at Rs.750/acre	37.5 "
(b) House compensation 13 villages at .75 lakhs per village	9.75 "
	250.25 lakhs
	or say 250 lakhs

II Revenue return

a) Rice 5000 acres at Rs. 10/acre	Rs. 50,000
b) Khariff seasonals 5000 acres at Rs.4/acres	" 20,000
c) Rabi seasonals 5000 acres at Rs.6/acre	" 30,000
	" 1,00,000
Deduct working expenses	" 30,000
Net Revenue	" 70,000

Therefore percentage return on capital cost 0.28%

Cost/acre irrigated - Rs. 1670/acre.

Handwritten signature
 Superintending Engineer, K.I.C.

Letter

No.M.I.4.

Karnatak Irrigation Circle,
Dharwar, Oct., 1951.

To

The Chief Engineer to Government,
Public Works Department,
Bombay.Subject:- Bairanpad Irrigation Scheme,
Dharwar.Reference: Government letter P.W.D.No. S 95(3)-
1767-I.B.(II), dated 18-1-1951.

2. The scheme for constructing a storage dam at Bairanpad having been dropped as not feasible, investigations were carried out to see if a pick-up-weir scheme would be feasible. The topography at Bairanpad offers a good site for the weir as the width of the river at the site is comparatively constricted and the bed and the flanks expose hard, stratified massive quartzite schist which appears suitable to take the foundations. Reconnaissance carried out indicated no other better site between Bairanpad and Harihat. The Catchment Area of the Tungabhadra River at Bairanpad is about 3,200 square miles and the maximum flood that could be expected according to Inglis' formula, would be of the order of 4 lac cusecs. The river bed level at the weir site as worked out from the top-sheet contours is about R.L.1745. The Taluka town of Honnali is situated on the left bank of the Tungabhadra about 12 miles upstream of the weir site, the lowest level of the town being about R.L.1790. In order to safeguard the town from submergence and also to keep the submersion of valuable fertile lands on the banks upstream of the weir to a minimum, the weir crest is proposed at R.L.1770. With a flood lift of 12' over the weir, the length required to pass the maximum flood of 4 lac cusecs would be about 3000'. This would leave the town unaffected by the weir, by a safe margin. About 5,000 acres of land will be submerged and about 13 small villages will be affected.

3. The left bank canal can take off from the weir at R.L.1765 and run along a falling contour with a bed fall of 1' per mile for a length of 50 miles up to the confluence of the Varada River, commanding an area of about 22,000 acres as shown in the accompanying plan. The command lies in a belt of 20" to 25" annual rainfall and the land is suitable for cultivation of rice and other seasonal crops. Assuming 70% of the command as irrigable, the irrigable area will be about 15,000 acres. With 5,000 acres under rice and 10,000 acres under other seasonals, the capacity of the canal at the head will have to be about 400 cusecs including provision for transit losses, rush etc.

4. From the plan attached, it will be seen that the canal can command only a very narrow strip of land along the river. A command of 22,000 acres with a 50 mile length of canal is not a very encouraging feature but the position of the Tunga Canals under construction in Mysore is not much better. The Tunga left Bank Canal with a length of 62 miles, commands less than 30,000 acres giving about 480 acres for the mile. The Tunga Right Bank Canal with a length of 32 miles has a command of 7,300 acres only, giving about 230 acres for the mile against 50 miles of the proposed Tungabhadra Left Bank Canal in Dharwar District, commanding 22,000 acres and giving 440 acres for the..

the mile and yet the Tunga canals are under construction.

5. With 5,000 acres of rice, 5,000 acres of Kharif and 5,000 acres of Rabi seasonals water required upto end of November, would be about 400 cusecs and about 80 cusecs thereafter upto the end of the Rabi season. From the discharge data of the Tungabhadra River observed at Harihar by the late River Gauging Sub-Division, Belgaum, during two seasons; it is seen that the daily discharge exceeds 3,000 cusecs in November; but it dwindles down to about 100 cusecs during February. These discharges will be greatly moderated after the completion of the Tunga anicut and the Bhadra Reservoir which are at present under construction in the Mysore state and further observations of river discharges including the regenerated flow will have to be made and studied before the scheme is considered further. However, the right of the Bombay Government to claim its share of the Tungabhadra waters is, I think, reserved and negotiations will have to be carried on with the Mysore, Madras and Hyderabad Governments, for the purpose.

6. The principal features are given in the accompanying statements. It will be seen therefrom that the command is small, compared to the length of the canal and the cost of the whole scheme. The cost per acre irrigated will be Rs. 1670/- which is admittedly very high. The revenue return is also poor. The availability of water will have to be ascertained more definitely after the completion of the two Mysore Projects and the right of the Bombay Government to draw the water will have to be acceded by the three Governments concerned or it will have to be negotiated with them on the basis of reservation already made. 1139-41

7. In the circumstances mentioned above, the scheme is not worth proceeding vigorously at the present moment and will have to be left over for more propitious times. However, a claim for a share of the Tungabhadra waters may be registered with the other Governments concerned on the basis of this scheme and of the lift irrigation schemes being considered in the Agricultural Department. The need of acquiring land for submergence in the Mysore State may also be brought to the notice of that Government to get an indication of their reaction to the scheme. If the Mysore Government find any difficulty to irrigate the lands in the tail reaches of their Bhadra Canal on the right bank, it may be possible to take a right bank canal from the Bairanpad weir to irrigate river-side lands in the Mysore State for Kharif and rice crops in which case the cost of Head works at Bairanpad can be shared by both the Governments unless it involves appropriation by the Mysore Government of a greater share of the Tungabhadra waters than what they are entitled to.

Encl.
2 Statements
1 plan.

NS
26/10.

Superintending Engineer, K.I.C. 595(3)

78.

Shri Nare

4/4
5/11

93910

1-41-30

4

P. W. D.
J

633

Submitted with ref. to G.L. No.S.95(3)/1767-I.B.(II), dated 18-1-51, and the notes underlying it.

2. The proposal of construction of a dam across the Tungabhadra River near Bairanpad was considered in the notes at pp. 27-29 ante and it was decided to call for a report from the S.E., K.I.C., as to whether a pick-up-weir can be constructed near Bairanpad.

3. The S.E., K.I.C., has now reported that after investigation it is found feasible to construct a pick-up-weir at Bairanpad and the site is quite suitable. The details of the scheme, including financial aspect now submitted by the S.E. will be found at pp. 39-41 ante. The estimated cost is stated to be Rs.250 lakhs. The scheme comprises of a weir and a canal taking off from the Weir. The canal can, it is estimated, command only 22,000 acres. The cost ^{of complete} per acre irrigated is estimated to be Rs.1,670. The S.E. does not recommend to take up the scheme for the present and suggests that it may be left over for more propitious times. However, the S.E. suggests that we may register this Govt.'s claim with other Govts., viz. Mysore and Madras, for Tungabhadra waters on the basis of this scheme. The S.E. also suggests that Mysore Govt. may be consulted as to whether they find any difficulty to irrigate the lands in the tail reaches of their Bhadra Canal on the right bank. If so, such ~~difficulties~~ difficulties can be overcome by taking a right bank canal from the proposed Bairanpad Weir Scheme. The cost of the scheme can then be shared by both the Govts.

3. In the circumstances, it is for consideration whether the S.E.'s proposal to put off the scheme

scheme may be accepted and, if so, the Mysore Govt.

may be consulted in terms of S.E.'s suggestion at 'A' above

Thro: D.E.(I).

27.11.51

GJP.
26/xi/51

The Scheme for construction of a pile-up weir at Bainanpadi does not also seem to be feasible and maybe dropped at present.

S.S. (J.E.)

As regards S.E.'s suggestion we can register our claim with the other Govts for Tungabhadra waters.

However a proportionate cost of the project will have to be borne by us at the same time.

C.E.
S.E.

~~The proposed proposals~~

28/11

We may obtain engineering details & costs of forecast of the Tungabhadra project from Mysore Govt before proceeding further. We can then compare the salient features of our proposed scheme, with those of the Mysore state which is actually under construction.

X/pl kept up
for reference
3/12

28/11

J.B.

P.W.D.

Resubmitted with refec. to the S.S. note above.

2. The draft put up for approval may issue

Thro: S.E.(I)

19.12.51 No 20/12

20/12

S.S. (J.E.)

47

S. 95 (3) / 93910

No. S. 95 (3) / 93910 - J.

P. W. D.

B.C. (Bombay No. 1)

22nd December 1951

To

The Secy. to the Govt. of Mysore,
Public Works Dept.,
Bangalore.

Subject :- Project Reports

Sir,

I am directed to request you kindly to furnish copies of the project reports, containing engineering details, costs, ^{financial} forecasts, etc., in respect of the Tungbha Anicut and the Bhadra Reservoir, which are, it is understood, under construction in the Mysore State, as they ~~are~~ are required for ratee.

Yours faithfully,

D. A. Nil

Issue ~~to~~

2/12/51

D. # 5. to the G. & B.

Recd
26/12/51

19.12.51

Clement (24-2-52)

25/12

Shirley Nance

9/4

5:95(3)/93910

49

P.W.D.

J.Br

Resubmitted with refce. to G.L. No.
5:95(3)^{p47}/93910 - J, of 22.12.51.

2. The draft^{p51} put up for approval may
issue.

sig.
12/4/52

1/2

12-4-52.

AAS.

Urgent

S. 95 (3)/93910

No. S. 95 (3)/93910-J. 51

P. W. D.

B.C. (Belay No. I)

14th April 1952.

To

The Secy. to the Govt. of Mysore,

P. W. Deptt.

Bangalore.

Subject:- Project Reports.

Sir, I am directed to invite a referee. to
this Govt. letter ⁴⁰⁷ of even no. dated 22-12-51
on the subject mentioned above and
to request for an early reply thereto.
~~to request as to what a reply thereto may~~
~~be expected by this Govt.~~

DA Nil

Yours faithfully,

Issued 12.4.52.
1514/52 W

12.4.52 1414

Issue 12/4
14

A.S. to the G. of S, P.W.D.

Chart (16-6-52)

16/4

BHADRA RESERVOIR, CHICKMAGALUR DISTRICT, MYSORE STATE.A SHORT NOTEProposals:

The construction of a Reservoir across the Bhadra at Lakkavalli forms one of the major irrigation schemes in the Tungabhadra Basin in the north-western part of the State.

Dam:

The proposals envisage

- 1) the construction of a reservoir to store 132 ft. depth of water to irrigate, 1,80,000 acres of land in the arid tracts of Shimoga & Chitaldrug Districts;
- 11) the development of power of 17,000 H.P. (continuous) at Dam site.

Canals & Irrigation:

Two main canals are proposed, one on either bank. The left bank channel, 30 miles long, irrigates 21,000 acres in Shimoga District. The right bank channel is 62 miles long and comprises 2 sections, the first section being 51½ miles up to the site of the tunnel (3 miles long) to be bored through a range of hills, dropping the water into the Sulekere Tank valley. 37,000 acres are irrigated in this reach. After entering the Sulekere Tank, two high level canals on either bank of the tank are taken to irrigate 113,000 acres of very fertile lands in the dry District of Chitaldrug. A further extent of 9,000 acres is proposed to be developed by improvement of duty.

The gross area commanded by the reservoir channels is nearly 400,000 acres, out of which about 300,000 acres is the cultivable command. The area selected for irrigation is only 1,80,000 acres; the system of triennial rotation of cultivation of crops, viz., paddy, sugarcane and irrigated dry, is proposed to be adopted.

C o s t:

The project has been sanctioned administratively for Rs. 888.48 lakhs. The total cost of the scheme with the present

with the present day cost is worked out at Rs. 20 crores.

Benefits of the scheme:

The scheme is of greatest utility to the dry taluks of Shimoga, Honnali, Channagiri, Davangere and Harihar in the Shimoga and Chitaldrug Districts, where the average annual rainfall is as low as 16" and varies between 10" to 25". The scheme also contemplates the development of power at the Dam site to an extent of 17,000 H.P.

Present Progress:

Approach roads to Dam site, quarries and nearby places have been opened. A major bridge across the Bhadra one furlong lower down the Dam site has been completed and opened out for traffic. Permanent office buildings and temporary quarters for the existing staff are nearing completion.

The river at Dam site has been diverted fully for summer flood and the bed exposed. Foundation excavation at the river bed has been carried down to an average depth of 40 feet. Core samples of the bed foundation have been taken and examined, and arrangements are being made for cement grouting the foundations under pressure. Excavations for the flanks in the river portion is under progress. Masonry work has been started in the river bed where hard rock has been met with. Materials on a large scale are under collection.

Intensive surveys --Engineering, Health, Agricultural and Economic -- of the entire area to come under irrigation are nearing completion.

SALIENT FEATURES OF BHADRA RESERVOIR PROJECT (MASONRY DAM)
MYSORE STATE.

I. HYDROLOGY.

1. Catchment area. 760 Sq.miles.
2. Width of river at dam site 300 feet.
3. Maximum flood discharge. 94,500 cusecs. Provided for
120,000 cusecs.
4. Maximum waterspread area. At plus 182 - 47 sq.miles nearly.
5. Maximum length at maximum waterspread. 10½ miles.
6. Rainfall -
 - (a) In catchment area. 202" at Kotigehar to 46" at Lakkavalli
 - (b) In atchkat area. 36" at Tarikere to 20" at Malebennur.

II. CONSTRUCTION DETAILS.

1. Situation. Across the river Bhadra near Lakka-valli, Tarikere Tq. Chickmagalur Dt.
2. Greatest height of dam above foundation. 230 feet.
3. Length of dam including saddles.

Main dam in river portion	1320 ft.
Ist Saddle	1340 ft.
2nd Saddle	700 ft.
4. Road width at top of dam. 15 feet.
5. Bottom width at deepest foundation. 229 feet.
6. Maximum depth of storage. 182 feet above river bed.
7. Capacity -
 - a) above river bed. 67,588 M.Cft. at plus 180
 - b) above main Irrigation sluice. 58,884 M.Cft. at plus 180
8. Quantity of masonry in dam 221,106 units of 100 cft.
9. Estimated cost of the project. Nearly Rs.20 crores.
10. Sluices in the Dam.
 - (a) for irrigation.
 - i) at plus 100 in river portion in the right bank - 2 of 6' x 15'
 - * 35 ii) at plus ~~100~~ ¹²⁰ in the left bank channel - 2 of 6' dia.
 - (b) for power
 - i) High level turbine sluice in the river portion in the right bank at plus ~~100~~ ¹²⁰ - 3 of 8½ dia.
 - *120 ii) Low level turbine sluice in the river portion in the right bank at plus 50 - 3 of 8½ dia.
 - (c) for surplus disposal 8 sluices of 10' x 25' proposed in the river portion.

-2-

11.

~~XX~~ Submersion.-

i) No. of villages that get submerged.	25
ii) Wet & garden lands -do-	~~XXXXXX~~ 5252 acres.
iii) Dry lands -do-	1690 acres.
iv) State forest -do-	~~6585~~ acres plus 901 acres of ~~teak~~ forest.
v) Other area -do-	11,675 acres.
vi) Miscellaneous properties that get submerged.	Tarikere-Mangalore road 17 miles. Bhadravati-Narasimharajapur road 8 miles. Tarikere-Narasimharajapur tramway 12 miles. M.I.S.W. Tramway. 15 miles.

III. HYDRO ELECTRIC.

Proposed power development.	17,000 H.P. continuous or 21,500 H.P. peak load with 80% load factor.
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IV. IRRIGATION (Proposed as per sanction)

1. Irrigation in left bank.	Under left bank channel length - 30 miles Irrigation - 21,000 acres. Maximum capacity - 335 cusecs (20' bed width, 6' full supply depth)
2. Irrigation in right bank.	Maximum capacity at start 2,500 cus. Direct irrigation up to tunnel & length, 55 miles - 22,000 acres. Anvery distributary - length 36 mls. Irrigation - 15,000 acres. Davangere Branch 37½ miles. Irrigation 71,000 acres. Malebennur Branch - length 25 miles. Irrigation - 42,000 acres. extra by improvement of duty 9000 ac.
3. Details of tunnel for channel.	For right bank canal from its 55th mile to 62nd mile. Capacity of tunnel - 1926 cusecs.
4. Irrigable area commanded.	300,000 acres.
~~Sanctioned extension of channel works only.~~	~~Only 1521 acres.~~

BHADRA RESERVOIR PROJECT

61

I. Financial Forecast as per original sanction:

1) Gross cost of the Project	..	Rs. 888.48 lakhs.
ii) Contribution from dry lands to be converted into wet, 163,000 acres @ Rs. 60/- per acre	..	Rs. 97,80,000
iii) Realisation from sale of Government lands:		
1253 acres @ Rs10/- per acre	Rs 12,530.	
570 " 15/- "	8,550.	
55 " 20/- "	1,100.	
1649 " 35/- "	57,715.	
8,000 " 100/- "	<u>800,000</u>	
		<u>27x</u> 8,79,895
Total Realisations: (ii) plus (iii).	Rs.	<u>1,06,59,895</u>
iv) Net Government share of Capital cost: (8,88,48,000 - 1,06,59,895)	or	Rs. 7,81,88,105
v) Net Receipts:		
a) Water rate on 1,71,000 acres @ 7-8-0 per acre, less 1-4-0 per acre working expenses	...	10,68,750
b) Power @ Rs100/- per H.P. on 21,500 H.P. peak load	...	<u>21,18,000</u>
Total	..	<u>Rs. 32,18,750</u>
RETURN:	$\frac{32,18,750}{7,81,88,105} \times 100 = 4.12 \text{ per cent.}$	

II. Financial Forecast as per present proposal:

1) Gross cost of the Project	..	Rs. 2,000 lakhs.
ii) Contribution:		
a) Dry lands to be converted into wet 176,618 acres @ Rs150/- per acre	..	2,64,92,700
b) Existing wet & garden: 3382 acres @ 80/- per acre	..	<u>2,70,560</u>
		Rs. 2,67,63,260
(* Revised figure).		
iii) Realisation from sale of Government lands:		
13,191 acres @ 100/- per acre	<u>13,19,100</u>	<u>13,19,100</u>
Total Realisations: (ii) plus (iii)	-	<u>Rs. 2,80,82,360</u>
iv) Net Government share of Capital cost: (20,00,00,000 - 2,80,82,360)	or	Rs. 17,19,17,640
v) Net Receipts:		
a) Water rate @ 15/- on 176,618 acres		26,49,270
@ 8/- on 3,382 "		<u>27,056</u>
		26,76,326
b) Deduct working expenses @ 2-8-0 per acre on 180,000 acres		<u>4,50,000</u>
Net	..	Rs <u>22,26,326</u>
b) Power: 17,000 H.P. continuous @ Rs 100 per H.P.		<u>17,00,000</u>
		Rs. <u>39,26,326</u>
Anticipated Return:	$\frac{39,26,326}{17,19,17,640} = 2.28 \text{ per cent.}$	

TUNGA ANICUT AT SACREBYLE, SHIMOGA DISTRICT, MYSORE STATE.

A SHORT NOTE

Proposals:
Overflow
Dam:

The proposal for the construction of an overflow dam across the Tunga is taken up for developing irrigation in regions of low rainfall in the Shimoga and Honnali Taluks of Shimoga District in the north-western area of the State. A high co-efficient overflow dam 1,200 feet long and 41.25 feet high above the average river bed, with a bucket profile on the rear face, is provided.

Hydrology:

The catchment area of the river at the proposed Anicut site near Sacrebyle is 865 Sq. miles, with an annual rainfall varying from 316" to 116". The maximum and minimum gauged discharges in the river are 96,200 cusecs and 60,550 cusecs, respectively. As calculated from the flood marks of the 1924 floods, the maximum discharge is computed to be 2,32,211 cusecs and a provision for a discharge of 2,60,000 cusecs is made in the design of the surplus works.

The average annual inflow into the river is gauged to be nearly 200,000 M.cft. as deduced from figures during the years 1936 to 1945.

Channels:

Two channels take off from either end of the overflow dam for irrigating a total extent of 21,000 acres, out of 35,753 acres of cultivable area in the Shimoga and Honnali Taluks, where the average annual rainfall is 33% and 24" respectively. The left bank channel is 65 miles long and irrigates 16,500 acres, while the right

right bank channel is 32 miles long and irrigates 4,500 acres.

C o s t:

The estimated cost of the project is Rs. 200 lakhs.

The work was started during June, 1946, and the scheme is under execution. The work is proposed to be completed in all respects by 1955-56 if adequate funds are made available.

Present
Progress:

The overflow section has been founded for the full length in the river portion and masonry work is under progress for nearly half the width of the river.

The works are in good progress and nearly 30% of the work has been completed.

The right bank channel has been excavated for 4 miles and the left bank channel for 18 miles. Cross drainage and other masonry works across the channel are under progress. A tunnel, 1,500 feet long, in the left bank channel at its 12/13 mile, has been commenced and a drive of nearly 850 feet has been made.

SALIENT FEATURES OF THE TUNGA ANICUT SCHEME (MASONRY OVERFLOW DAM)

MYSORE STATE.

I. HYDROLOGY.

1. Catchment area. 865 Sq. miles.
2. Width of river at Dam site 1,200 feet.
3. Maximum flood discharge. 2,32,000 cusecs. Provided for 260,000 cusecs.
4. Maximum water spread area. 3,332 acres.
5. Maximum length at maximum waterspread. Along the River 12 miles.
6. Rainfall -
 - (a) In catchment area. 316" at Agumai to 88" at Shimoga.
 - (b) In atchkat. 33" at Shimoga to 24" at Honnali.

II. CONSTRUCTION DETAILS.

1. Situation. Across the River Tunga near Saccabyle in Shimoga Taluk, Shimoga District.
2. Greatest height of dam above foundation. 65 ft. (at scouring sluice portion)
3. Length of dam including saddles.

Overflow Section.	1200 ft.
Earthen bund on the left flank.	500 ft.

	Total. 1700 ft.

4. Road width at top of dam. NIL.
5. Bottom width at deepest foundation. Overflow Section - 78 ft. nearly.
6. Maximum depth of storage. Upto creast of anicut 41 ft. 3 in. (above average river bed)
7. Quantity of masonry in dam. 24,28,751 C ^{ft.} ~~cu~~ (including scouring sluices, wings, head-sluices)
8. Estimated cost of the Project. Rs.200 lakhs.
9. Sluices in the dam.-
 - (a) for Irrigation.

Left Bank at 1910.00 sill - 5 vents of 10' x 6'
Right Bank at 1912.00 sill - 3 vents of 10' x 4'
 - (b) for surplus disposal. Disposal over the masonry dam with a maximum spillage of 13½ ft.
10. Submersion.-
 - i) No. of villages that get submerged. Five.
 - ii) Wet & Garden lands -do- Wet - 990 acres.
 - iii) Dry lands -do- 436 acres.
 - iv) State Forest -do- 1,767 Acres.
 - v) Other area -do- 140 acres.
 - vi) Miscellaneous portion -dp- Shimoga-Mangalore Trunk Road for 4 miles.

III HYDRO ELECTRIC.

NIL.

IV. IRRIGATION (Proposed as per sanction)

1. Irrigation on the left bank. Left Bank Channel length 65 miles.
Irrigation - 16,500 acres.
Capacity - 550 cusecs.
2. Irrigation on right bank. Right Bank Channel length 32 mls.
Irrigation - 4,500 acres.
Capacity - 130 cusecs.
3. Details of tunnel for channel. For left bank channel for 1,500 ft.
between 12th and 13th miles near
the Circuit House, Shimoga.

Area of tunnel - 95 sq.ft.

Bed fall - 9.38 ft. per mile.

Velocity - 8' per second.

Discharge in tunnel - 485 cusecs
portion. nearly.

TUNGA ANICUT PROJECTI. Financial Forecast as per original sanction:

i) Gross cost of the Project	...	Rs. 70 lakhs.
ii) Contribution:		Rs.
a) Dry lands to be converted into wet, 14,523 acres @ Rs60 per acre	8,71,380.	
b) Existing wet & garden lands, 4866 acres @ Rs30 per acre	1,45,980.	10,17,360.
iii) Realisation from sale of Govt. lands, 1580 acres @ Rs100 per acre	..	1,58,000
Total Realisations: (ii) plus (iii)	..	11,75,360
iv) Net Government share of Capital Cost: (70,00,000 - 11,75,360)		58,24,640
v) Net Receipts:		
a) Water rate on 16,103 acres @ Rs6 per acre	96,618.	
b) -do- 4,866 acs.@ Rs4 "	19,464	
	1,16,082	
Deduct working expenses @ 1-4-0 per acre	26,211	
Net Receipts	89,871	89,871.
RETURN:	$\frac{89,871}{58,24,640} \times 100 = 1.54 \text{ per cent.}$	

II. Financial Forecast as per present proposals:

i) Gross cost of the Project	...	Rs 200 lakhs.
ii) Contribution:		Rs.
a) Dry lands to be converted into wet: 14,523 acs. @ Rs150 per acre	21,78,450.	
b) Existing wet & garden lands: 4866 acres @ Rs30 per acre	3,83,220.	25,67,730.
iii) Realisation from sale of Govt. lands: 1580 acres @ Rs100 per acre	..	1,58,000
Total Realisations: (ii) plus (iii)	..	27,25,730
iv) Net Government ~~of~~ share of Capital Cost: (200,00,000 - 27,25,730)		1,72,74,270
v) Net Receipts:		
a) Water rate on 16,103 acs. @ Rs15 per acre	2,41,545.	
b) -do- 4,866 acs.@ Rs3 "	38,928	
	2,80,473	
Deduct working expenses @ 2-8-0 per acre	52,422	
Net Receipts	...	2,28,051
Anticipated Return:	$\frac{228,051}{172,74,270} \times 100 = 1.32 \text{ per cent.}$	

79
No S-95(3)/39769-J

P.W.D.,
B.C. (Bombay No1)
5 May 1952..

To

~~Shri K.S. Gangadharan~~
The Secretary to the Govt. of Mysore,
Public Works Department,
General and Revenue Secretariat
Bangalore.

Sub: Projects Reports.

Sir,

I am directed to acknowledge with thanks the receipt of a short note with salient features, financial fore cast and index plan of the Bhadra and Junga Projects, ~~forwarded~~ ~~received~~ with your letter No PW 648/General 2 dt the 21-4-52.

Kmk

3-5-52

Yours faithfully

D. A. Nil

As to G. of B., P.W.D.

Issued.
1-5-52 encl.

Issue ~~15-1-52~~ 17/5

Smt. M.
6/5

77

GOVERNMENT OF MYSORE.

No. *MW 648 / Encl. 2*
Notes.

General and Revenue Secretariat,
Bangalore, Dated.....*21/4/1952*.....

FROM

THE SECRETARY TO GOVERNMENT,
Public Works Department.

To

The Secretary to Government,
Public Works Department,
Bombay.

SIR,

PROJECT REPORTS.

I am directed to refer to your letter *p. 47 a/c* No.S.95(3)/
93910-J dated 22-12-1951 on the above subject, and to
pp. 53-75 a/c
forward herewith a short note with salient features,
financial forecast and index plan of the Bhadra and Tunga
projects.

The receipt of these may kindly be acknowledged.

Yours faithfully,

K.S. Gangadhar
(K.S. Gangadhar) *19.4.52*
Secretary to Government,
Public Works Department..

Sms

TSRN.

78

J.B.

P.W.D.

~~Administrative order no. S-95(3)/39769 J~~

~~Dated 12-5-1952.~~

~~2/5/52~~

Submitted with the
p79
new draft for approval

Supdt.

Kuk
3-5-52

ser
3-5-52

AGS

FP 29/4

2 short-
notes

J.P.

Shri C
26/4

J
25/4
P. W. D.
File No. S-95(3)
Serial No. 39769

J
25/4/52

81

Bairanpad Irrigation Scheme.	Bhadra Reservoir	Jungle Oricut.
(Weir) 1	2	3 Weir

Catchment.	3200 sq.m.	760 sq.m	865 sq.m.
Rainfall.	20-25"	10-25"	
Max Flood	4 lac cusecs.	94,500 cusecs	2,32,000 cusecs.
No. of villages submerged.	13 villages	25 villages	5 villages.
Length.	50 miles	L.B. 30 miles. R.B. 62 miles.	L.B. 65 miles R.B. 32 miles.
Command	22,000 acres	300,000 acres	L.B. 28,453 acres R.B. 7,300 acres. <u>35,753 acres.</u>
Irrigable Area.	15,000 acres	180,000 acres	L.B. 16,500 acres. R.B. 4,500 acres <u>21,000 acres.</u>
Cost.	Rs. 250 lakhs	Rs 2,000 lakhs	Rs 200 lakhs
Net Rev. Return.	Rs 70,000.	Rs 39,26,326	Rs 2,28,651.
Percentage Return.	0.28	2.28	1.32.
No of acres per mile	440 acres	3260 acres	L.B. 437 acres. R.B. 238 acres.
Cost per acre of irrigated area	<u>Rs 1670</u>	Rs 1110	<u>Rs 950</u>

J. Bn.

x 3

S-95(3)/39469.

P.W.D.

Submitted w.r. to G.L. No. S-95(3)/93910. ^{P 47}

J, dt. the 22-12-51

2. As desired by the then D.S. (vide his note ^{P 46} dt. the 28-11-51), the Mysore Govt. have forwarded copies ^{PP-53-76} of the project reports etc. in respect of the Junga. Anicut & Bhadra Reservoir. These details were called for in order to compare the three schemes. A ^{P 81} statement showing the respective length, command, irrigable area etc. has been prepared and put up at p. 81 ante.

3. For reasons stated in his ^{P 45} letter No. M.I. 4 dt. the 27-10-51, the S.E., K.J.C. suggested that our claim for the Junga Waters on the basis of the Bainampad scheme should be registered with the Mysore & Madras Govts. He was also of the opinion that in case the Mysore Govt. found any difficulty to irrigate the lands in the tail reaches of their Bhadra Canal on the right bank, it would be possible to take a right bank canal from the Bainampad Weir, in which case the cost of the Head Works at Bainampad could be shared by both Govts. unless it involved appropriation by the Mysore Govt. of a greater share of the Tungabhadra Waters than what they were entitled to.

4. In the circumstances, it is for consideration whether the S.E.'s proposals may be accepted.

Shro' D.E. (9)

G.M.
12.5.52

Mysore Govt. have forwarded ^{Copies of} project-

By Secy (J+E) reports for

C.E.

Secy.

- 1) Tungabhadra anicut-
- 2) Bhadra reservoir

P.T.

80

as requested by the Govt for comparison
the same with the proposed weir at
Bairanpad across Tungabhadra

A comparative statement of
costs and commanded areas is noted
at page 81

The cost per acre of irrigable
area for the project is

- 1) Tungabhadra ^(weir) ~~ancient~~ . Rs 952/-
- 2) Bhadra reservoir Rs 1110/-
- 3) Bairanpad (weir) Rs 1670/-
- 4) Mahi R. B. Canal _(weir + canal) Rs 577/-
- 5) Ghatabrabha L. B. Canal _(weir + canal) Rs 545/-

~~The cost~~ Item 2 is proposed
to irrigate perennial crops and the
higher cost may be justified. The
cost per acre for the proposed Bairanpad
weir is too high and the project
~~cannot~~ is not therefore likely to be
taken up in the immediate future

However in the meanwhile
as mentioned by S.E.K.I.C we can
start negotiations regarding

- i) Registering right of Tungabhadra water for Bombay state (H)
- ii) Question of submergence of land in Mysore state

and (iii) The question of a right Bank canal from Baiyampad weir to irrigate lands in Mysore state

As regards item (ii) above it appears difficult to have a R.B. Canal from the proposed weir site.

180
2315

D.S. (DYE)

- Vide (A) ~~do~~ may not serve any useful purpose pl vide pp 23)
- S.E. Shimpa Circle states the quantities of water the shared between Mysore & Madras Govts have been fixed.
- (2) the land submergence in Mysore State is another knotty point.
- (3) the cost of the proposed Scheme is also not encouraging - too ~~costly~~ costly.
- So I think he may shelve the Scheme

C.E.

See

D.S. (E)

C.E.

Incidentally, the financial forecasts for the Mysore Projects (Bhadra River & the Tungb Anicut) pp 61 & 73 respectively may pl be perused

hll
26/5/52

hll
26/5

I discussed the scheme with the S.E. K.J.C. It is not at all attractive. I do not think any purpose will be served by raising a claim for share of water with the Mysore Govt at this stage

hll
26/5/52

21/6
1/3

See

Min

J. B.

P. W. D.

Re submitted with reference to the C.F.,
P.W.D's note dated 14-6-52 agreed to by the Min. P.W.D. - p. 5 -
2. The S.E., K.I.C., may be informed that
it has been decided to drop the Baiampad
irrigation scheme. The necessary draft is - p. 7
put up for approval.
Sho' D E (9)

am.
30/6/52

1/7

W.S. D E

1/7

No 8-95(3)/39769-J.

87
letter

P. W. D.

B.C. (Bombay 961),
2 July 1952.

To
The S.E., H.G.C.

Subject: Bairanpad Irrigation Scheme -
Kharwar.

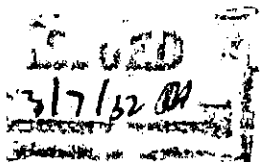
p 43

Reference: Your letter No MI-H dated the

27-10-51.

2. I am directed to state that the
Bairanpad Irrigation Scheme has been
considered and it has been decided to
drop the scheme as it is not ~~at all~~ attractive

DA. Nil.



am.
30/6/52

2/7/52

By order etc

Asst. Secy